

Examiner Name: To be assigned

As a below named Inventor, I hereby declare that:

Filing

My residence, post office address, and citizenship are as stated below next to my name.

required)

| I believe I am the original, first ar below) of the subject matter which | nd sole inventor (if only one h is claimed and for which a | name is listed below) or an original patent is sought on the invention | ginal, first and joint is on entitled: | nventor (if plur | al names are listed |
|--|--|--|--|-------------------------------------|----------------------|
| DIFFERENTI | ATION OF ADIPOSE STR | OMAL CELLS INTO OSTEOR | BLASTS AND USES | S THEREOF | |
| the specification of which | | | | | |
| is attached hereto OR was filed on December | 1, 1998 as PCT Internation | al Application Number PCT/US | 598/25449. | | |
| I hereby state that I have reviewed amendment specifically referred to I acknowledge the duty to discloss | o above. | | | | |
| I hereby claim foreign priority be inventor's certificate, or § 365 (a) listed below and have also identifinternational application having a Prior Foreign Application | of any PCT international ap ied below, by checking the filing date before that of th | oplication which designated at lobox, any foreign application for | east one country other patent or inventor's | er than the Unite certificate, or o | ed States of America |
| Number(s) | Country | | Not Claimed | Yes | No |
| N/A | | | | | |
| | | | | | |
| Addition | nal foreign application numb | pers are listed on a supplementa | l priority sheet attach | ned hereto: | |
| I hereby claim the benefit | under Title 35, United State | s Code § 119(e) of any United | States provisional ap | plication(s) list | ed below. |
| Application Number(s) | Filing Date (MM/DD/YYYY) | Additional provisional appriority data sheet attached h | • | re listed on a su | pplemental |
| 60/067,334 | 12/02/1997 | | | | |



I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1..56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

| U.S. Parent Application or PCT Parent Number | Parent Filing Date (MM/DD/YYYY) | Parent Patent Number (if applicable) |
|---|------------------------------------|---|
| PCT/US98/25449 | 12/01/1998 | W099/28444 |
| | | |
| | | |

Additional U.S. or PCT international application numbers are listed on a supplemental priority sheet attached hereto.

As a named inventor, I hereby appoint the practitioners associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and direct that all correspondence be addressed to that Customer Number:

Customer Number 000826

Direct correspondence to the attention of and telephone calls to:

Robert E. McCarthy Registration No. 46,044 **ALSTON & BIRD LLP** Post Office Drawer 34009 Charlotte, NC 28234 Tel. Raleigh Office (919) 420-2200 Fax Raleigh Office (919) 420-2260

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application of any patent issued thereon.

Date: 5/5/2000

Full name of first inventor: Yuan-di C. Halvorsen

Inventor's

Residence:

Signature:

Citizenship: Post Office Address: Holly Springs, NC Republic of China

5128 Salem Ridge Road

Holly Springs, NC 27540

RTA01/2077354v1

Arry Docker No. :

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Yuan-Di, C. Halvorsen

Sarial No.:

09/554,868

Art Unit: 1614

Filed:

May 19, 2000

Examiner: N/A

For.

Differentiation of Adipose Stromal Cells into Osteoblasts and Uses Thereof

Assistant Commissioner for Patents Washington, DC 20231

POWER OF ATTORNEY, REVOCATION OF PRIOR POWERS AND CHANGE OF CORRESPONDENCE ADDRESS

Sir:

As Assignee of record of the entire interest in the above-referenced application, I hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application. I hereby appoint the following attorneys or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Sherry M. Knowles, Reg. No. 33,052 Steven P. Wigmore, Reg. No. 40,447 Liss K. Norton, Reg. No. 44,977 Clark G. Sullivan, Reg. No. 36,942 Holmes J. Hawlens, Reg. No. 38,913 W. Soon Perty, Reg. No. 35,645 Curtis L. Doster, Reg. No. 41,714 Charles Vormiran, Reg. No. 41,315 Hoang M. Vo, Reg. No. P-47,158

Please change the correspondence address for the above-identified application to:

Sherry M. Knowles, Esq. King & Spalding 191 Peachtree Street Atlanta, Georgia 30303-1763 (404) 572-3541 (404) 572-5145 facsimile

Assignee.

Signature:

Date:

15/14/00

Atmy Docket No. 08140.105001

ASSIGNMENT OF LETTERS PATENT AND INVENTIONS

19194331102

WHEREAS, ZEN-BIO, INC, a corporation of the State of North Carolina, having its principal place of business at 3200 Chapel Hill-Nelson Blvd., Suite 102, Research Triangle Park, NC 27709 (hereinafter "ASSIGNOR"), owns certain inventions and improvements disclosed in the following United States Patents and Patent Applications:

| | | Filed or Issued |
|------------|---|-----------------|
| Serial No. | Entitled | 12/2/1997 |
| 60/067,334 | Osteoblast Development and Use | 8/19/1999 |
| 60/149,849 | Multiple Mesodermal Lineage Differentiation Potentials for Adipose Tissue-Derived Stromal Cells | 168 |
| | and Uses Thereof Tiene Derived Stromal Cells for | 8/19/1999 |
| 60/149,850 | | 6/5/2001 |
| 6,242,200 | Screening for SUR1 Antagonists Using Adipocytes | • |

WHEREAS, ARTECEL SCIENCES, INC, a corporation of the State of Delaware, having a place of business at 801 Capitola Drive, Suite 8, Durham, NC 27713 (hereinafter, "ASSIGNEE") is desirous of acquiring an interest in the same;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR by these presents does sell, assign and transfer unto ASSIGNEE the full, exclusive and entire right, title, and interest in and to said Patents and Patent Applications, in and to any priority applications, divisions, continuations, reissues, and reexaminations thereof, and in and to all inventions and improvements disclosed and described in Patents and Patent Applications; and ASSIGNOR hereby requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States resulting from a division, continuation, reissue, or reexamination thereof, to ASSIGNEE, as the assignee, for its interest and for the sole use and benefit of ASSIGNEE and its assigns and legal representatives.

04:15pm

Atmy Docket No. 08140.105001

40

1.

For the same consideration, ASSIGNOR by these presents does sell, assign, and transfer to ASSIGNEE the full, exclusive, and entire right, title and interest in and to any foreign patent or applications corresponding to said Patents and Patent Applications, in whole or in part, worldwide, in all countries including the United States, in and to any Letters Patent and similar protective rights granted on said foreign applications, and in and to the right to claim any applicable priority rights arising from or required for said foreign applications under the terms of any applicable conventions, treaties, statutes, or regulations, said foreign applications to be filed and issued in the name of ASSIGNEE, or its designee insofar as permitted by applicable law.

AND, for the same consideration, ASSIGNOR agrees to sign all lawful papers, execute all divisional, continuing, reissue, reexamination and other applications, make all assignments and rightful oaths, and generally do everything possible to aid ASSIGNEE, its successors, assigns, and nominees, to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

AND, for the same consideration, ASSIGNOR by these presents does sell, assign, and transfer to ASSIGNEE the full, exclusive, and entire right to sue for past infringement of said Patents worldwide, together with all claims for damage by reason of past infringement of said Patents, with the right to sue for, and collect the same for ASSIGNEE'S own use and enjoyment.

ASSIGNOR further agrees that all necessary records of ASSIGNOR to establish priority of invention in any interference or similar proceeding will be made available at no additional charge to ASSIGNEE, in the event such records are needed in connection with any of the assigned Patents or Patent Applications.

Atmy Docket No. 08140.105001

91

IN WITNESS WHEREOF, the undersigned has caused this Assignment to be executed by its duly authorized officers and its seal to be affixed, this 17th day of Delube, 2001.

ASSIGNOR: ZEN-BIO, INC.

[Corporate Seal]

Its: Rosiland

Attny Docket No. 08140.105001

(SEAL)

My Commission Expires: March 5, 2006

From-Artecel Sciences

ASSIGNMENT

THIS ASSIGNMENT, made by ZEN-BIO, INC., a corporation of the state of North Carolina, having its principal place of business at 3200 Chapel Hill-Nelson Blvd., Suite 102, Research Triangle Park, NC, 27709, hereinaster referred to as Assignor;

WITNESSETH: That,

WHEREAS, as shown by the records of the United States Patent and Trademark Office, Assignor has previously acquired all right, title, and interest in and to the United States patent and/or patent applications identified on the attached Schedule and in and to all corresponding patents and/or patent applications worldwide, and in and to the inventions represented thereby (all hereinafter referred to as the "Patents"); and,

WHEREAS ARTECEL SCIENCES, INC., a corporation of the state of Delaware, having its principal place of business at HQ Global Workplaces, 4819 Emperor Blvd., Durham, NC 27703, hereinaster referred to as Assignee, is desirous of acquiring the entire right, title, and interest in and to said Patents and in and to the inventions represented thereby; and

WHEREAS, the parties have agreed to the Assignment hereinafter set forth;

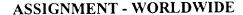
NOW, THEREFORE, To All Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the above Assignor has sold and by these presents does hereby sell, assign, transfer, and convey unto the said Assignee, its successors and assigns, its entire right, title, and interest in and to said Patents and the inventions represented thereby, and any and all continuations, continuations-in-part, or divisions thereof, and any and all Letters Patent or reissues, reexaminations, or extensions thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim priority in all foreign countries in accordance with the International Convention; all rights corresponding to said Patents in foreign countries throughout the world; and all of its rights to sue for past infringement of said Patents worldwide, together with all claims for damage by reason of past infringement of said Patents, with the right to sue for, and collect the same for Assignee's own use and enjoyment; all to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made.

From time to time after the date hereof, at the request of either party hereto, and at the expense of the party so requesting, each of the parties hereto shall execute and deliver to such From-Artecel Sciences

requesting party such documents and take such other action as such requesting party may reasonably request in order to consummate more effectively the transactions contemplated hereby.

The Assignor further covenants and agrees that, at the time of the execution and delivery of these presents, it possesses full title to the inventions and Patents thereon as earlier identified, and that it has the unencumbered right and authority to make this assignment.

| this | IN WITNESS WHEREOF, the Assignor has caused this assignment to be executed day of March. 2001. |
|---------------------|---|
| | By: (SEAL) |
| | tre Lise 2 : est |
| STA | INTY OF Durham |
| This | day of March 2001, personally came before me, |
| corp seal com | of ZEN-BIO, INC., a North Carolina or sworn, says that he is Possident of ZEN-BIO, INC., a North Carolina poration, and that the seal affixed to the foregoing instrument in writing is the corporate of said company, and that said writing was signed and sealed by him in behalf of said poration by its authority duly given. And the said Peter Pieraccini acknowledged said writing to be the act and deed of said corporation. |
| Win 200 | ness my hand and official seal, this the bth day of March |
| (Off | ficial Seal) Notary Public |
| Μv | commission expires: July 23 2005 |



For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

ZEN BIO, INC. 3200 Chapel Hill-Nelson Boulevard, Suite 102 Resarch Triangle Park, North Carolina 27709

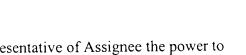
its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention in "DIFFERENTIATION OF ADIPOSE STROMAL CELLS INTO OSTEOBLASTS AND USES THEREOF"

as set forth in this United States Patent Application

| | executed concurrently herewith | |
|------------------------|--------------------------------|--|
| $\overline{\boxtimes}$ | executed on May 05, 2000 | |
| | Application No; filed | |

said application for United States Letters Patent, including all divisional, renewal, substitute, continuation, nonprovisionals, continuation-in-parts, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody said inventions, and to testify in any proceedings relating to said inventions, patent applications, and/or Letters Patent.

ORSYAMEL SOUTH DOLLAR



The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

| 5/5/2000 | Span-di C. Halor |
|--|---|
| Date | Yuan-Di C. Halvorsen |
| State of North Caroling County of Wake | |
| | |
| I, <u>Debbie Whitakev</u> , a Necertify that Yuan-Di C. Halvorsen personatue execution of the foregoing instrument | Notary Public for said County and State, do hereby ally appeared before me this day and acknowledged the t. |
| Witness my hand and official seal, this th | e 5th day of May, 2000. |
| (Official Seal) | Deliles Whitaky |
| | Notary Public |
| | My commission expires My Commission Expires August 29 2003 |

Attorney Docket No. 5750-17 RTA01/2077337v1

| FORM-PTO-1595 TRANSMITTAL OF DOCUM 1-31-92 PATENT | |
|---|--|
| To the Honorable Commissioner of Patents and Trademarks: Please re | |
| 1. Name of conveying party(ies): Zen-Bio, Inc. Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No | 2. Name and address of receiving party(ies): Name: Artecel Sciences Inc. |
| 3. Nature of Conveyance: ☐ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name Other Execution Date: December 17, 2001 . | Foreign Address: Domestic Address: 801 Capitola Drive, Suite 8 City: Durham State: NC ZIP: 27713 Additional name(s) & address(es) attached? Yes No |
| 4. Application number (s) or patent numbers(s): If this document is being filed together with a new application A. Patent Application No.(s) 60/067,334; 60/149,849; Additional numbers attack | 60/149,850 B. Patent Registration No. (s) 6,242,200 |
| 5. Name and address of party to whom correspondence concerning document should be mailed: | 6. Number of applications and patents involved: 4 |
| Name: Sherry M. Knowles, Esq. | 7. Total fee (37 CFR 3.41): \$ <u>160.00</u> . |
| Atlanta, Georgia 30303-1763 | □ Enclosed □ Authorized to be charged to deposit account |
| Telephone No.: 404- 572- 3541 | 8. Deposit account number |
| Facsimile No.: 404 572-5145 | 11-0980 (Attach duplicate copy of this page if paying by deposit account): |
| DO NOT USE THIS SPACE | |
| 9. Statement and signature. To the best of my knowledge and belief, the foregoing of the original document. Joseph M. Bennett-Paris | information is true and correct and any attached copy December 21, 2001 |
| Name of Person Signing Signatur Total number of pages comprising cover sheet: 1 | e Date |

| | MENT FOR RECORDATION TS ONLY Atty. Docket 08140.105001 |
|---|---|
| To the Honorable Commissioner of Patents and Trademarks: Please | record the attached original documents or copy thereof. |
| 1. Name of conveying party(ies): Zen-Bio, Inc. | 2. Name and address of receiving party(ies): |
| Additional name(s) of conveying party(ies) attached? U Yes No | Name: Artecel Sciences Inc. |
| 3. Nature of Conveyance: | Foreign Address: Domestic Address: 801 Capitola Drive, Suite 8 |
| ☐ Security Agreement ☐ Change of Name Other Execution Date: March 6, 2001 | City: <u>Durham</u> State: <u>NC</u> ZIP: <u>27713</u> Additional name(s) & address(es) attached? Yes No |
| Application number (s) or patent numbers(s): If this document is being filed together with a new applicat A. Patent Application No.(s) SEE ATTACHED LIST Additional numbers attached. | Γ B Patent Registration No. (s) |
| 5. Name and address of party to whom correspondence concerning document should be mailed: | 6. Number of applications and patents involved: 9 |
| Name: Sherry M. Knowles, Esq | 7. Total fee (37 CFR 3.41): \$360.00 |
| Atlanta, Georgia 30303-1763 . | ☑ Enclosed☐ Authorized to be charged to deposit account |
| Telephone No.: 404- 572- 3541 | 8. Deposit account number |
| Facsimile No.: 404 572-5145 . | 11-0980 (Attach duplicate copy of this page if paying by deposit account): |
| DO NOT USE THIS SPACE | |
| 9. Statement and signature. | |
| To the best of my knowledge and belief, the foregoing of the original document. Joseph M. Bennett-Paris | December 21, 2001 |
| Name of Person Signing Signatu | re Date |

AUG 2 9 2000

Received By _____



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

AUGUST 22, 2000

ALSTON & BIRD LLP W. MURRAY SPRUILL P.O. DRAWER 34009 CHARLOTTE, NC 28234-4009 PTAS



UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/19/2000

REEL/FRAME: 010885/0857

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

HALVORSEN, YUAN-DI C.

DOC DATE: 05/05/2000

ASSIGNEE:

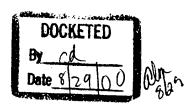
ZEN BIO, INC.
3200 CHAPEL HILL-NELSON BLVD.
SUITE 102
RESEARCH TRIANGLE PARK
NORTH
CAROLINA
27709

SERIAL NUMBER: 09554868

PATENT NUMBER:

FILING DATE: 05/19/2000

ISSUE DATE:



5.9.08 IGNME

96-21-2000

| _ | | 7740 |
|------------------|----------|-------------|
| ER SHEET Patents | Chily, O | 19 MAY |

| To the Honorable Commissioner of Please record the attached original 10138588 | titolicy Dkt. 110 5750 17 |
|--|--|
| 1. Name of conveying party(ies): | 2. Name and address of receiving party(ies): |
| Yuan-Di C. Halvorsen Additional name(s) of conveying party(ies) attached? Yes □ No ☒ | Zen Bio, Inc. 3200 Chapel Hill-Nelson Blvd. Suite 102 Research Triangle Park, NC 27709 |
| 3. Nature of conveyance: Assignment Merger Security Agreement Change of Name Other Execution Date: May 5, 2000 | Additional name(s) & address(es) attached? Yes 🗌 No 🔀 |
| 4. Application No Patent No Patent No If this document is being filed together with a new appl is: 05/19/2000 Additional numbers attached? Yes □ No ☒ | |
| 5. Name and address of party to whom correspondence concerning document should be mailed: W. Murray Spruill ALSTON & BIRD LLP P. O. Drawer 34009 Charlotte, NC 28234-4009 | 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41) \$40.00 ☐ Enclosed ☐ Authorized to be charged to deposit account 8. Deposit account number: 16-0605 |
| DO NOT I | JSE THIS SPACE |
| 9. Statement and signature 730/2000 ዘርታይኒኒኒኒኒኒኒኒኒኒኒኒኒኒኒኒኒኒኒኒኒኒኒኒኒኒኒኒኒኒኒኒኒኒኒኒ | nformation is true and correct and any attached copy is a true copy of |
| Robert E. McCarthy, Reg. No. 46,044 Name of Person Signing Robert E. McCarthy, Reg. No. 46,044 Signature | I E M' couly May 19, 2000 Date |
| Total number of pages including of | cover sheet, attachments and document: 3 |
| | |

Zen-Bio to Artecel Assignments of March 6, 2001

US Patent Applications

- 1. 09/554,868
- 2. 09/573,989
- 3. 09/592,019
- 4. 09/592,420
- 5. 09/592,421
- 6. 09/638,544
- 7. 60/185,338

US Patents

8. 6,100,047

PCT Applications

9. US98/25449 (publication:WO 99/28444)



Schedule of Applications/U.S. Patents for Assignment From Zen-Bio, Inc. to Artecel Sciencis,

| L | | | | | |
|------------------------|----------------|-----------------|--|---|-----------------------------|
| | 6/12/00 | 09/592,421 | Modulation Of The Sulfonylurea Receptor and Calcium In Adipocytes For Treatment Of Obesity And Diabetes | | 5750-7C (199482) |
| | 6/12/00 | 09/592,019 | Modulation Of The Sulfonylurea Receptor and Calcium In Adipocytes For Treatment Of Obesity And Diabetes | | 5750-7B (199481) |
| | 6/12/00 | 09/592,420 | Modulation Of The Sulfonylurea Receptor and Calcium In Adipocytes For Treatment Of Obesity And Diabetes | | 5750-7A (199479) |
| | 4/7/99 | 09/287,907 | Modulation Of The Sulfonylurea Receptor and Calcium In Adipocytes For Treatment Of Obesity And Diabetes | 6,100,047 / 8/8/00 | 5/50-7 (180376) |
| | 5/19/00 | 09/554,868 | Into Osteoblasts And Uses Thereof | | 5750-17 US (198374) |
| | 12/1/98 | 2000-523321 | Differentiation of Adipose Stromal Cells Into Osteoblasts And Uses Thercof | | 5750-4-5 Japan (197932) |
| | 12/1/98 | 98960593.6 | Differentiation of Adipose Stromal Cells Into Osteoblasts And Uses Thereof | | 5750-4-4 EP (197931) |
| | 12/1/98 | 98811794.0 | Differentiation of Adipose Stromal Cells Into Ostcoblasts And Uses Thereof | | 5750-4-3 China (197930) |
| | 12/1/98 | 2,312,847 | Differentiation of Adipose Stromal Cells Into Osteoblasts And Uses Thereof | | 5750-4-2 Canada (197927) |
| | 12/1/98 | PCT/US98/25449 | Differentiation of Adipose Stromal Cells Into Osteoblasts And Uses Thereof | | 5750-4-1 173755 |
| l je es 10 | Filing Date | Appl No. | FOR THE STATE OF T | Theit of the pate | Atty, Docket Now |
| 6 U.S. PTO 0/061214 | | Artecel Science | ents for Assignment From Zen-Bio, Inc. to Artecel Sciences, Inc. Effective January 2, 2001 | Schedule of Applications/U.S. Patents for Assignment From Inc. Effective January 2, 2001 | Schedule |

RTA01/2036778v1

RTA01/2086778v1

| Adity Dooket No. | And the North State Date | 5> | Appl. No. | Filing Date |
|-------------------|---|----------|-------------|----------------|
| | Tissue-Derived Stromal Cells and Uses | d Uses | | |
| | Thereof | | | |
| 5750-13-3 | Multiple Mesodermal Lineage | 0 | 00307153.7 | 8/21/00 |
| EP (203065) | Differentiation Potentials for Adipose | ipose | | |
| | Tissue-Derived Stromal Cells and Uses | id Uses | | |
| | Thereof | | | |
| 5750-13-4 | Multiple Mesodermal Lineage | 2 | 2000-249591 | 8/21/00 |
| Japan (203066) | Differentiation Potentials for Adipose | lipose | | |
| | Tissue-Derived Stromal Cells and Uses | 1d Uses | | |
| | Thereof | | | |
| 5750-15P (193598) | Pleuripotent Stem Cell Potential Of Adipose | | 60/185,338 | 2/26/00 |
| | Tissue - Derived Stromal Cells And Uses | And Uses | | |
| | Thereof | | | |

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